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A New Subspecies of *Euploea tobleri* from Mindoro,
the Philippines (Lepidoptera, Danaidae)

Akira YAMAMOTO

1–18–2, Nogata, Nakano-ku, Tokyo, 165 Japan

and

Shin TAKEI

1561 Heathdale Drive, Burnaby, B.C., V5B 3N9, Canada

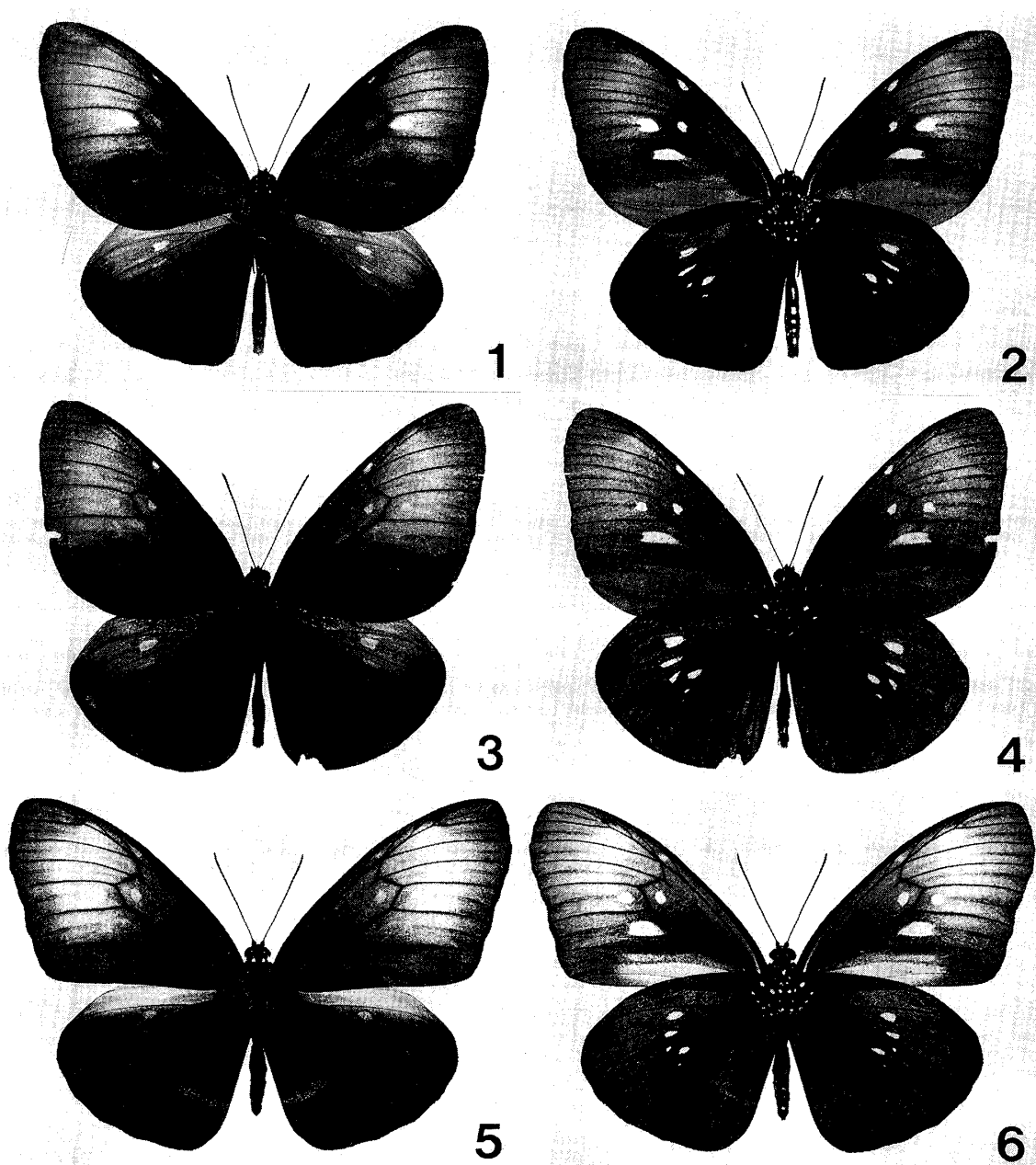
Euploea tobleri SEMPER, 1878 endemic to the Philippines, is differentiated into six geographical races, namely, *tobleri* SEMPER, 1878 (from Luzon), *snelleni* MOORE, 1883 (from Mindanao), *peducaea* FRUHSTORFER, 1910 (from Bazilan), *romeo* SCHRÖDER et TREADAWAY, 1978 (from S.E. Luzon), *silmae* SCHRÖDER et TREADAWAY, 1978 (from Leyte) and *inouei* OSADA et HASHIMOTO, 1982 (from Negros). Recently we captured a remarkable new geographical race of this species from Mindoro. In this present paper, we describe it as a new subspecies.

Euploea tobleri mangyan subsp. nov.

(Figs. 1–6)

♂ Upperside : Ground color blackish brown. Forewing with postdiscal area in spaces 2 to 6 and 8 diffused with white scales, forming a light brown area, but divided sharply by blackish brown veins. A postdiscal spot at base of space 3 white and well-marked, but fainter on another specimen ; a subcostal spot in space 10 white, sullied with fuscous scales, small and faintly marked ; a spot before the end of cell on the underside faintly visible ; a clearly defined greyish brown male sex brand in middle of space 1b about halfway from wing base to termen, 0.8 to 1.3 mm in width, 6.5 to 8.5 mm in length. Fringe blackish brown. Hindwing with a costal paler speculum extending to proximal half of space 5 and three quarters of space 6, whole of spaces 7 and 8, and upper quarter of cell ; postdiscal spots in spaces 4 to 6 on the underside faintly visible. Fringe blackish brown.

Underside : Ground color blackish brown. Forewing as on the upperside, but postdiscal area only slightly paler than ground color ; an additional wedge-shaped white postdiscal spot at base of space 2 larger than the spot in space 3 ; a subcostal spot in space 10 and a spot before the end of cell both white and clearly defined. Spaces 1b and 1a lighter brown, with slightly shining specialized scales ; the distal portion of



Figs. 1-6. *Euploea tobleri mangyan* subsp. nov. 1. ♂, holotype. 2. Ditto, underside. 3. ♂, paratype. 4. Ditto, underside. 5. ♀, paratype. 6. Ditto, underside.

space 1b same as ground color. Hindwing with four clearly defined postdiscal spots at bases of spaces 3 to 6 white and mostly wedge-shaped ; the dot-like spot in space 3 the smallest, and the spot in space 6 the largest. An oval spot before the end of cell white and well marked.

Both wings termen slightly crenulate. Forewing with termen straight and the dorsum bowed ; a recurrent vein in cell distinct. Hindwing with termen evenly curved. Forewing length : 43 to 47 mm.

♀ Upperside : Similar to male, but forewing postdiscal area whitish brown and more clearly defined than that of the male. Hindwing spaces 7 to 8 brownish grey, but space 7 diffused with blackish brown scales in proximal and distal portions.

Underside : Similar to male, but ground color slightly paler. Forewing postdiscal area whitish brown, but this whitish brown area smaller than that of the upperside ; space 1a and posterior portion of space 1b greyish white except distal one-third ; anterior portion of space 1b with poorly defined, greyish white streak. Hindwing with two additional white postdiscal spots in spaces 2 and 7 faintly marked.

Forewing with termen more crenulate than in the male and somewhat produced at vein 5 ; the dorsum straight ; the recurrent vein as in the male. Hindwing termen similar to that of the male. Forewing length : 49 mm.

Type-locality : Mt. Halcon (alt. 150 to 700 m), northern Mindoro, the Philippines.

Holotype : ♂, Mt. Halcon, northern Mindoro, 8. viii. 1982, S. TAKEI leg.

Paratypes : 1 ♂, same locality as the holotype, 5. viii. 1985, S. TAKEI leg. ; 1 ♀, *ditto*, 4. viii. 1985, A. YAMAMOTO leg.

The holotype and a pair of paratypes will be deposited in the collection of the National Science Museum (Natural History), Tokyo.

This unique new subspecies can be distinguished from other six subspecies by the following characteristics :

- 1) There are no marginal series of spots on either wing, while in the other six subspecies they are present.
- 2) There are no subapical white patches on the upperside of the forewing, while in *tobleri* and *inouei* they are present and well marked.
- 3) There is postdiscal light brown area on the upperside of the male forewing, while in the other six subspecies it is not present.
- 4) There are no submarginal streaks on the upperside of the hindwing, while in *tobleri*, *snelleni*, *peducaeae*, *romeo* and *silmae* they are present and well marked.
- 5) There is postdiscal whitish brown area on the upperside of the female forewing, while in the other six subspecies it is not present.

The subspecific name *mangyan* is the name of a major tribe in the mountain areas of Mindoro.

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摘 要

ミンドロ島産 *Euploea tobleri* SEMPER の 1 新亜種 (山本 晃・竹井 慎)

ミンドロ島より *Euploea tobleri* の 1 新亜種 subsp. *mangyan* を記載した。*E. tobleri* はフィリピン群島の特産種として知られ、これまでにおもだった島嶼から 6 つの亜種が記載されている。すなわちルソン島の *tobleri* および *romeo* (東南部)、ミンダナオ島の *snelleni*、バシラン島の *peducaea*、レイテ島の *silmae* そしてネグロス島の *inouei* である。これらの亜種の幾つかは、基産地島嶼のほかに、隣接したほかの島嶼からも記録されている。本新亜種 *mangyan* は既知の 6 亜種のいずれとも、前・後翅の外縁紋列をまったく現さない点で顕著に異なり、容易に区別できる。7 亜種となった本種は、その翅斑から *tobleri*・*romeo*, *snelleni*・*peducaea*・*silmae*, *inouei* そして *mangyan* と大きく 4 つの異所的フォームに分けることができ、それらの地理的分布は、これまでに認識されているフィリピン群島の生物地理学的な区分とよく一致している。